Pursuant to the authority vested in the Air Resources Board by Health and Safety Code Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: The following diesel or incomplete medium-duty vehicles (MDV) with a manufacturer's GVWR from 8501 to 14000 pounds are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

					E)	GINE DESCRIPTION				
			/	NGINE	EMISSION	FUEL TYPE 1	STANDARDS	ENGINE SIZES	ECS & SPECIAL FEATURES 3	OBD(F)
MODEL YEAR			MANI	JFACTURER	STD 2		& TEST PROCEDURE	(L)		
	EXECUTIVE ORDER			OTORS LIMIT	CATEGORY 1	Diesel		5.2	DDI, TC, CAC, ECM, EGR, OC, PTOX	
2007		20-0236	15020 M	O I ORS LIMIT	ULEV	<u> </u>	Diesel	TION	and the second s	Legal Park
	LPG or	Alcohol \	ehicles Only	rate (1.7)	1	orada ili organiga V	EHICLE DESCRIP VEH.	ENGINE	- AND HODEL CACODES	ENG.
	VAPORATIVE F		FUEL TANK CAPACITY	VEHICLE MODEL	VEHICLE I	VEHICLE MAKE & MODELS			ENGINE MODELS / CODES (rated power, in hp)	OBD
FAM	FAMILY		(gallons)	YEAR		P GM W3500 OBD		5.2	4HK1TC / 523FA-1 (200)	OBD(F
		•	•	2007	Isuzu N	Isuzu NPR, GM W3500			•	1
		•	*						•	T -
			•			 	*	 		
-not applicable: GVWR=pross ve			*		•	<u>"</u>		40. Code of Federal Regulations, Section	OC obsi	

*=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section (2006de L=liter; hp=horsepower; kw=kilowatt; EF=engine family; CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a BF=bi fuel; DF=dual fuel; FF=flexible fuel;

SULCY / LEY super utura / utura / iow emission venice;

ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=diesel particulate filter; PTOX=periodic trap oxidizer; HQ2S/Q2S=healed/oxygen

sensor; HAFS/AFS=heated/air-fuel-ratio sensor (a.k.a., universal or linear oxygen sensor); TBI=throttle body fuel injection; SF/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection;

GCARB=gaseous carburetor; IDVDDI=indirect/direct diesel injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection

SPI=smoke puff limiter; OBD(F) / (P) / (\$)=full / partial / partial with a fine / on-board diagnostic; ECM/PCM=engine/powertrain control module; EM=engine modification; 2 (prefix)=parallel; (2)

FUND | PAIR/AIR=pulsed/secondary air injection; TC/SC=turbo/super charger; CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; PAIR/AIR=pulsed/secondary ai (suffix)=in series,

Following are: 1) the FTP exhaust emission standards or family emission limit(s) as applicable under 13 CCR 1956.8; 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavyduty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu of testing. (For dual- and flexible-fuel, the CERT values in brackets [] are those when tested on conventional test fuel.)

ose when tested on conventional test rossy					NMHC+NOx CO		PM		нсно				
	NMHC		NOx						ETB	EURO	FTP	EURO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	 		2050	
	FIF			 		•	14.4	14.4	0.01	0.01	0.050	0.050	
סד	0.14	0.14		<u> </u>			- :::			•	•	1 *	
EL	*	•	1.23	1.23	1.2	1.2				0.000	0,043	0,010	
			1.18	1.05	1.2	1.1	0.1	0.01	6.001	0.003			
ERT _	0.03 0.003							18.0		0.015		0,075	
ITE	0.21		1.845		1.8				F=Not-to-Exceed emission limit;		arm -tdeed as emission test		

g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed emission limit; STD=standard or emission lest cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldehyde; cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; NOx=oxides oxides oxides

BE IT FURTHER RESOLVED: Certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: The listed engine models have been certified to the optional emission standards and test procedures in 13 CCR 1956.8 applicable to diesel or incomplete MDV with a 8501-14000 pound GVWR and shall be subject to 13 CCR 2139(c) (in-use testing of engines certified for use in diesel or incomplete MDV with a 8501-14000 pound GVWR).

BE IT FURTHER RESOLVED: The listed engine models have been certified to the split engine family standards under 13 CCR 1956.8(b) [diesel engines] or 13 CCR 1956.8(d) [Otto engines] and the incorporated 40 CFR 86.007-15(m)(9).

BE IT FURTHER RESOLVED: For the listed vehicle models the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR 1965 (emission control labels), 13 CCR 1968.2 (on-board diagnostic, full or partial compliance), 13 CCR 1976(b)(1)(B)-(C) or 13 CCR 1976(b)(1)(F) (evaporative emission standards), 13 CCR 2035 et seq. (emission control warranty), and 13 CCR 2235 [fill pipes and openings of motor vehicle fuel tanks]. (The braces {} are for gasoline, LPG or alcohol fueled vehicles only. The brackets [] are for gasoline or alcohol fueled vehicles only.)

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

day of December 2006. Executed at El Monte, California on this _____

> Annette Hebert, Chief Mobile Source Operations Division